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FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MFL-001

SEP 28 2000

APPLICANT(S): Friedl et al.

TC 2700 MAIL ROOM

SERIAL NO.: 09/404,932

FILING DATE: September 24, 1999

GROUP: 2763

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KMN	A1	5,835,379	11-10-98	Nakano	364	475.02	7-28-95
KMN	A2	4,387,655	6-14-1983	Chaiken	110	347	5-10-1982
KMN	A3	4,504,920	3-12-1985	Mickowski	364	550	8-12-1981
KMN	A4	4,534,003	8-6-1985	Manzione	364	476	8-24-1981
KMN	A5	4,868,751	9-19-1989	Dogru et al.	364	422	9-11-1987
KMN	A6	4,989,166	1-29-1991	Akasaki et al.	364	578	4-19-1989
KMN	A7	5,031,108	7-9-1991	Fujita et al.	364	476	11-18-1988
KMN	A8	5,031,127	7-9-1991	Fujita et al.	364	476	11-18-1988
KMN	A9	5,035,598	7-30-1991	Fujita et al.	425	144	11-7-1989
KMN	A10	5,097,431	3-17-1992	Harada et al.	364	578	10-10-1990
KMN	A11	5,097,432	3-17-1992	Harada et al.	364	578	10-10-1990
KMN	A12	5,146,086	9-8-1992	De et al.	250	253	3-19-199
KMN	A13	5,350,547	9-27-1994	Yamaguchi et al.	264	40.1	11-30-1992
KMN	A14	5,377,119	12-27-1994	Backer et al.	364	476	7-22-1993
KMN	A15	5,549,857	8-27-1996	Kamiguchi et al.	264	40.1	6-6-1994
KMN	A16	5,572,434	11-5-1996	Wang et al.	364	475.02	6-14-1994

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
KMN	B1	AU-A-27152/95	15.02.1996	AU			24.07.1995		Y
KMN	B2	0 698 467 A1	28.02.1996	EP			01.08.1995		Y
KMN	B3	0 525 198 A1	03.02.1993	EP			14.01.92		Y

EXAMINER

KMShenoyJm

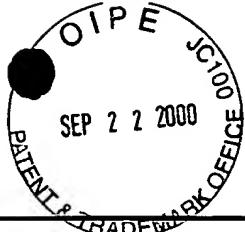
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FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.: MFL-001 APPLICANT(S): Friedl et al. SERIAL NO.: 09/404,932 FILING DATE: September 24, 1999 GROUP: 2763
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FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
KMN	B4	4305424	28.10.92	JP			03.04.91	Y	Y
KMN	B5	4331125	19.11.92	JP			12.03.91	Y	Y
KMN	B6	7125034	16.05.95	JP			05.11.93	Y	Y

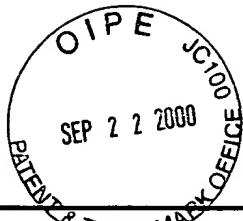
OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
KMN	C1	K. Talwar et al., "Three Dimensional Simulation of Plastic Injection Molding," Moldflow Pty. Ltd., 6 pgs. (1998).
KMN	C2	K. Talwar et al., "Three Dimensional Simulation of Plastic Injection Molding," Moldflow Pty. Ltd., Michigan, 9 pgs. (1998).
KMN	C3	S. Ray et al., "Incorporation of Viscoelastic Constitutive Equations in the Injection Molding Process," Industrial Research Institute Swinburne and Moldflow Pty. Ltd., Cairns, Australia, 10 pgs. (September 1997).
KMN	C4	S. Ray et al., "Three Dimensional Simulation of Viscoelastic Constitutive Equations Using a Segregated Finite Element Scheme," Industrial Research Institute Swinburne and Moldflow Pty. Ltd., Adelaide, Australia, 4 pgs. (July 1998).
KMN	C5	K. Talwar et al., "Three Dimensional Mould Filling Simulation Using a Segregated Finite Element Scheme," Moldflow Inc., Cairns, Australia, 11 pgs. (September 1997).
KMN	C6	P. Brincat et al., "Contraction Pressure Loss; Influence of Temperature and Fibre Reinforcement," Swinburne University of Technology, Moldflow Pty. Ltd., and Sunkyong Industries, Sorrento, Italy, 2 pgs. (1996).
KMN	C7	F. Costa et al., "An Adaptation of the Boundary Element Method for Modeling Gas Injection Molding," <u>Simulation of Materials Processing: Theory, Methods and Applications</u> , Rotterdam, The Netherlands, pp. 1113-1118, (1995).
KMN	C8	F. Costa et al., "Gas Injection Molding Simulation By the Boundary Element Method," Swinburne University of Technology and Moldflow Pty. Ltd., Melbourne, Australia, 11 pgs. (1994).
KMN	C9	J.G. Rice et al., "An Equal-Order Velocity-Pressure Formulation That Does Not Exhibit Spurious Pressure Modes," <u>Computer Methods in Applied Mechanics and Engineering</u> , vol. 58, pp. 135-149 (1986).
KMN	C10	A.N. Brooks et al., "Streamline Upwind/Petrov-Galerkin Formulations for Convection Dominated Flows with Particular Emphasis on the Incompressible Navier-Stokes Equations," <u>Computer Methods in Applied Mechanics and Engineering</u> , vol. 32, pp. 199-258, (1982).

EXAMINER <i>K. M. Cannon</i>	DATE CONSIDERED 8/18/03
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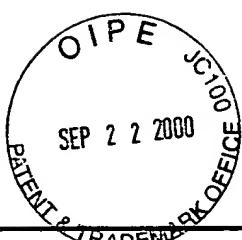
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FORM PTO-1449		ATTORNEY DOCKET NO.: MFL-001	SEP 28 2000
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Friedl et al.	TC 2700 MAIL ROOM
		SERIAL NO.: 09/404,932	
		FILING DATE: September 24, 1999	GROUP: 2763
OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
KMN	C11	H. Yokoi et al., "Measurement of Melt Temperature Profiles During Filling and Packing Processes Using a New Integrated Thermocouple Sensor," University of Tokyo and Yamaha Motor Co., Ltd., 7 pgs. (1992).	
KMN	C12	C.W. Hirt et al., "Volume of Fluid (VOF) Method for the Dynamics of Free Boundaries," Journal of Computational Physics, vol. 39, pp. 201-225, (1981).	
KMN	C13	Y. Saad et al., "GMRES: A Generalized Minimal Residual Algorithm for Solving Nonsymmetric Linear Systems," Siam J. Sci. Stat. Comput., vol. 7, no. 3, pp. 856-869, (July 1986).	
KMN	C14	C. Herber et al. "A Finite-Element/Finite-Difference Simulation of the Injection-Molding Filling Process," <u>Journal of Non-Newtonian Fluid Mechanics</u> , vol. 7, pp. 1, 3-6 (1980).	
KMN	C15	"Moldflow Design Principles," Moldflow Corporation, pp. cover, i-vi, 1-55 (1984).	
KMN	C16	K. Bathe, "Finite Element Procedures in Engineering Analysis," pp. 407-428 (1982).	
KMN	C17	J. Daily et al., "Fluid Dynamics," pp. 164-165, 180-185 (1966).	
KMN	C18	L. Prandtl, "Essentials of Fluid Dynamics," pp. 150-151 (1967).	
KMN	C19	H. Wang et al., "Numerical Techniques for Free and Moving Boundary Problems," <u>Fundamentals of Computer Modeling for Polymer Processing</u> , C. Tucker, ed., Chapter 8, pp. 375-377 (1989).	
KMN	C20	J. Slattery, "Momentum, Energy, and Mass Transfer in Continua," pp. 98-99 (1972).	
KMN	C21	V. Voller et al., "An Algorithm for Analysis of Polymer Filling of Molds," <u>Polymer Engineering and Science</u> , vol. 35, no. 22, pp. 1758-1765 (November 1995).	
KMN	C22	W. Young et al., "Analysis of Resin Injection Molding in Molds with Preplaced Fiber Mats," <u>Polymer Composites</u> , vol. 12, no. 1, pp. 30-38, (February 1991).	
KMN	C23	K. Talwar et al., "Three-dimensional Simulation of Polymer Injection Molding: Verification," Moldflow International Pty. Ltd., Seoul, Korea, pp. 51-58, (July 1998).	
KMN	C24	C. Friedl, "Progress Towards True 3D CAE Analysis for Injection Molding," Moldflow Pty. Ltd., 5 pgs. (1996).	
KMN	C25	V. Rajupalem et al., "Three-Dimensional Simulation Of The Injection Molding Process," Moldflow Pty. Ltd., 4 pgs. (1997).	
KMN	C26	J.P. Holman, "Heat Transfer," McGraw-Hill, Singapore, pp. 136-139, (1989).	
EXAMINER	K. Sherry		DATE CONSIDERED 8/18/03

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FORM PTO - 1449		ATTORNEY DOCKET NO.: MFL-001	SEP 28 2000
INFORMATION DISCLOSURE STATEMENT		APPLICANT(S): Friedl et al.	TC 2700 MAIL ROOM
		SERIAL NO.: 09/404,932	
		FILING DATE: September 24, 1999	GROUP: 2763
OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
<i>KMN</i>	C27	S. Guceri, "Finite Difference Solution of Field Problems," <u>Fundamentals of Computer Modeling for Polymer Processing</u> , C. Tucker, ed., Chapter 5, pp. 198-199 (1989).	
<i>KMN</i>	C28	"Getting Started with MF/Flow3D," Release 1.0.0, Moldflow Corporation, pp. i, ii, 1-84, (September 1998).	
<i>KMN</i>	C29	"Installation Guide for Moldflow Plastics Insight," Release 1.0.1, Moldflow Corporation, pp. i, 1-73, (June 1999).	
<i>KMN</i>	C30	"Getting Started with Moldflow Plastics Insight," Release 1.0, Moldflow Corporation, pp. i, ii, 1-91, (June 1999).	
<i>KMN</i>	C31	H. Begehr et al., "Non-Newtonian Hele-Shaw flows In $n \geq 2$ Dimensions," <u>Nonlinear Analysis, Theory, Methods & Applications</u> , Vol. 11, No. 1, Great Britain, pp. 17-18 (1987).	
<i>KMN</i>	C32	H. Begehr et al., "Hele-Shaw Type flows in R^n ," <u>Nonlinear Analysis, Theory, Methods & Applications</u> , Vol. 10, No. 1, Great Britain, pp. 65-66 (1986).	
<i>KMN</i>	C33	P. Kennedy, "Flow Analysis of Injection Molds," Germany, entire book, (1995).	
EXAMINER	<i>K. M. Kennedy</i>		DATE CONSIDERED 8/18/03

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SHEET 1 OF 1

FORM PTO - 1449

SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT

ATTORNEY DOCKET NO.: MFL-001

APPLICANT(S): Friedl et al.

SERIAL NO.: 09/404,932

FILING DATE: September 24, 1999

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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>KNM</i>	A17	5,811,133	9-22-98	Saito et al.	425	145	
<i>KNM</i>	A18	5,581,468	12-3-96	White et al.	364	475.09	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
<i>KNM</i>	B7	0 747 198 A2	12-11-96	EP	B29C	45/76	6-3-96		Y
<i>KNM</i>	B8	08230007	9-10-96	JP	B29C	45/76	2-27-95	Y	Y

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)

EXAMINER *R. M. Campbell Jr.*

DATE CONSIDERED

8/18/03

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FORM PTO - 1449			ATTORNEY DOCKET NO.: MFL-001						
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT			APPLICANT(S): Friedl et al.						
			SERIAL NO.: 09/404,932						
			FILING DATE: September 24, 1999 GROUP: 2763						
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
KMN	A19	6,161,057	12-12-00	Nakano		700	197	5-4-98	
KMN	A20	3,977,255	8-31-76	Groleau et al.		73	432 R	8-18-75	
KMN	A21	4,641,270	2-3-87	Lalloz et al.		364	476	4-24-85	
KMN	A22	5,072,782	12-17-91	Namba		164	45	7-6-89	
KMN	A23	5,812,402	9-22-98	Nishiyama		364	468.03	3-12-96	
KMN	A24	6,021,270	2-1-00	Hanaki et al.		395	500.28	5-30-97	
KMN	A25	6,096,088	8-1-00	Yu et al.		703	9	9-17-97	
KMN	A26	6,192,327	2-20-01	Nishiyama et al.		703	2	5-27-98	
KMN	A27	6,327,553	12-4-01	Nishiyama et al.		703	2	5-11-00	
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
KMN	C34	J.-F. Hétu et al., "Three-dimensional Finite Element Simulation of Mold Filling Processes," <u>Simulation of Materials Processing: Theory, Methods and Applications</u> , Rotterdam, Netherlands, pp. 1135-1140 (1995).							
EXAMINER	<i>KMN</i>		DATE CONSIDERED 8/18/03						